## Beam Power Tube— **Sharp-Cutoff Pentode**

## DUODECAR TYPE

## GENERAL DATA

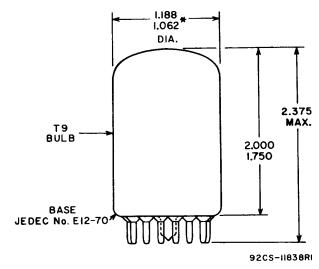
	Electrical:	
	Heater Characteristics and Ratings:  Voltage (AC or DC) 6.3 ±0.6  Current at heater volts = 6.3 1.200  Peak heater-cathode voltage (Each unit):	volts amp
	Heater negative with respect to cathode 200 max.	volts
	Heater positive with respect to cathode 200° max.  Direct Interelectrode Capacitances (Approx.):	volts
	Beam Power Unit: Grid No.1 to plate 0.26 Grid No.1 to cathode & grid No.3, grid No.2, internal shield,	pf
	and heater	pf
	and heater 12.0	pf
	Pentode Unit: Grid No.1 to plate 0.034 Grid No.3 to plate 2.8 Grid No.1 to cathode, grid No.2, grid No.3, internal shield.	pf pf
	and heater 6.5 Grid No.3 to cathode, grid No.1, grid No.2, plate, internal shield,	pf
<u> </u>	and heater 7.5 Grid No.1 to grid No.3 0.24 Plate of beam power unit	pf pf
	to plate of pentode unit 0.12	pf
	Characteristics, Class A, Amplifier (Pentode Unit): Plate Supply Voltage	1
	Grid-No.3 Supply Voltage Connected to cathode at s Grid-No.2 Supply Voltage	volts volts volts ohms negohm µmhos µmhos ma
	Grid-No.2 Current	ma volts volts

Mechanical:				
Operating Position				
Pin 1-Heater Pin 2-Pentode Cathode Pin 3-Pentode Grid No.1 Pin 4-Pentode Grid No.3 Pin 5-Internal  Pin 8-Beam Power Grid No.1 Pin 9-Beam Power Cathode, Beam Power Plate Pin 10-Beam Power				
Shield  Pin 6 - Pentode Plate  Pin 7 - Pentode  Grid No.2  Pin 11 - Beam Power  Plate  Plate  Pin 12 - Heater				
PENTODE UNIT - FM SOUND DETECTOR				
Maximum Ratings, Design-Maximum Values:  PLATE VOLTAGE				
BEAM POWER UNIT - AMPLIFIER - Class A				
Maximum Ratings, Design-Maximum Values:PLATE VOLTAGE.150 max. voltsGRID-No.2 (SCREEN-GRID) VOLTAGE.135 max. voltsAVERAGE CATHODE CURRENT.65 max. maPLATE DISSIPATION.6.5 max. wattsGRID-No.2 INPUT.1.8 max. watts				
Typical Operation and Characteristics:				
Plate Voltage.120voltsGrid-No.2 Voltage.110voltsGrid-No.1 (Control-Grid) Voltage8voltsPeak AF Grid-No.1 Voltage.8volts				

Zero-Signal Plate Current 49	ma
MaxSignal Plate Current 50	ma
Zero-Signal Grid-No.2 Current 4	ma
Max.—Signal Grid—No.2 Current 8.5	ma
Plate Resistance (Approx.) 10000	ohms
Transconductance 7500	$\mu$ mhos
Load Resistance 2500	ohms
Total Harmonic Distortion 10	per cent
Max.—Signal Power Output 2.3	watts

 $<sup>{\</sup>color{red}a}$  The dc component must not exceed 100 volts.

**b** without external shield.



DIMENSIONS IN INCHES

\* APPLIES TO MINIMUM DIAMETER EXCEPT IN AREA OF SEAL.